

WHAT IS CLAIMED IS:

1. A feed screw device, comprising:  
a feed screw which is driven by driving power of a motor;  
shaft bushes which are provided movably in an axial direction of the feed screw to rotatably support both end parts of the feed screw; and  
cushioning members through which the shaft bushes are supported by stationary parts.
2. The feed screw device according to claim 1, wherein the feed screw device moves a projection lens barrel of a liquid crystal projector.
3. The feed screw device according to claim 1, further comprising:  
a detecting device which detects movement of the feed screw in the axial direction;  
and  
a control device which stops the motor when of the feed screw in the axial direction is detected by the detecting device.
4. The feed screw device according to claim 3, wherein the feed screw device moves a projection lens barrel of a liquid crystal projector.
5. The feed screw device according to claim 1, wherein when the feed screw is rotated by the driving power of the motor, a movable member is moved through a nut member screwed onto the feed screw, and an inertia force to be transmitted to the feed screw when the movable member comes into contact with a stopper at a moving stroke end is absorbed by the cushioning member through the shaft bush.
6. The feed screw device according to claim 5, wherein the feed screw device moves a projection lens barrel of a liquid crystal projector.
7. The feed screw device according to claim 5, further comprising:  
a detecting device which detects movement of the feed screw in the axial direction;

and

a control device which stops the motor when of the feed screw in the axial direction is detected by the detecting device.

8. The feed screw device according to claim 7, wherein the feed screw device moves a projection lens barrel of a liquid crystal projector.

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